H67M-GE/HT

Intel® H67 Chipset

ASRock
www.asrock.com

Product Brief

- 100% All Solid Capacitor design
- Supports Intel® K-Series unlocked CPU
- Supports Dual Channel DDR3 1333
- Intel® HD Graphics 2000/3000 and new Visual Features, DX10.1, Pixel Shader 4.1
- Supports Blu-ray Stereoscopic 3D with HDMI 1.4a
- Multi VGA Output options: D-Sub, DVI-D, HDMI and DisplayPort
- 2 x Front USB 3.0 ports, 2 x Rear USB 3.0 ports, 2 x SATA3 connectors, 1 x eSATA2 connector
- Supports ASRock Extreme Tuning Utility (AXTU), Instant Boot, Instant Flash, Good Night LED, Multi-Fan Speed Control, AIWI, APP Charger, Smart View
- Combo Cooler Option (C.C.O.)
- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec), THX TruStudio PRO™ and Premium Blu-ray audio suppport
- Free Bundle: 1 x Front USB 3.0 Panel, 1 x Rear USB 3.0 Bracket, 1 x 3D Red/Cyan Anaglyph Glasses, 1 x CIR Remote Receiver, 1 x Remote Controller
- Free Software : CyberLink DVD Suite - OEM and Trial

Detail Specification

Platform	- Micro ATX Form Factor: 9.6-in x 9.6-in, 24.4 cm x 24.4 cm - All Solid Capacitor design
CPU	- Supports 2nd Generation Intel® Core™ i7 / i5 / i3 in LGA1155 Package - 4 + 1 Power Phase Design - Supports Intel® Turbo Boost 2.0 Technology - Supports Intel® K-Series unlocked CPU - Supports Hyper-Threading Technology
Chipset	- Intel® H67
Memory	- Dual Channel DDR3 memory technology - 4 x DDR3 DIMM slots - Supports DDR3 1333/1066 non-ECC, un-buffered memory - Max. capacity of system memory: 32GB
Expansion Slot	- 1 x PCI Express 2.0 x16 slot (blue @ x16 mode) - 2 x PCI Express 2.0 x1 slots - 1 x PCI slot
Graphics	- Intel® HD Graphics 2000/3000 and new Visual Features - Pixel Shader 4.1, DirectX 10.1 - Max. shared memory 1759MB - Multi VGA Output options: D-Sub, DVI-D, HDMI and DisplayPort - Supports HDMI 1.4a Technology with max. resolution up to 1920x1200 @ 60Hz - Supports DVI with max. resolution up to 1920x1200 @ 60Hz - Supports D-Sub with max. resolution up to 2048x1536 @ 75Hz - Supports DisplayPort with max. resolution up to 2560x1600 @ 60Hz - Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI (Compliant HDMI monitor is required) - Supports Blu-ray Stereoscopic 3D with HDMI 1.4a - Supports HDCP function with DVI, HDMI and DisplayPort - Supports Full HD 1080p Blu-ray (BD) / HD-DVD playback with DVI, HDMI and DisplayPort
Audio	- 7.1 CH HD Audio with Content Protection (Realtek ALC892 Audio Codec) - Premium Blu-ray audio support - Supports THX TruStudio PRO™
LAN	- PCIE x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111E - Supports Wake-On-LAN - Supports LAN Cable Detection - Supports Energy Efficient Ethernet 802.3az
Rear Panel I/O	I/O Panel - 1 x PS/2 Keyboard Port - 1 x VGA/D-Sub Port - 1 x VGA/DVI-D Port - 1 x HDMI Port - 1 x Display Port - 1 x Optical SPDIF Out Port - 4 x Ready-to-Use USB 2.0 Ports - 1 x eSATA2 Connector - 2 x Ready-to-Use USB 3.0 Ports - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jack: Rear Speaker / Central / Bass / Line in / Front Speaker / Microphone
SATA3	- 2 x SATA3 6.0 Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 10, RAID 5 and Intel® Rapid Storage), NCQ, AHCI and "Hot Plug" functions
USB 3.0	- 2 x Rear USB 3.0 ports by Etron EJ168A, support USB 1.0/2.0/3.0 up to 5Gb/s - 1 x Front USB 3.0 header (supports 2 USB 3.0 ports) by Etron EJ168A, supports USB 1.0/2.0/3.0 up to 5Gb/s
Connector	- 3 x SATA2 3.0 Gb/s connectors, support RAID (RAID 0, RAID 1, RAID 10, RAID 5 and Intel® Rapid Storage), NCQ, AHCI and "Hot Plug" functions - 2 x SATA3 6.0 Gb/s connectors - 1 x Floppy connector - 1 x IR header - 1 x CIR header - 1 x Print Port header - 1 x COM port header - 1 x HDMI_SPDIF header - 1 x Power LED header - CPU/Chassis/Power FAN connector - 24 pin ATX power connector - 8 pin 12V power connector - Front panel audio connector - 3 x USB 2.0 headers (support 6 USB 2.0 ports) - 1 x USB 3.0 header (supports 2 USB 3.0 ports)
BIOS Feature	- 64Mb AMI UEFI Legal BIOS with GUI support - Supports "Plug and Play" - ACPI 1.1 Compliance Wake Up Events - Supports jumperfree - SMBIOS 2.3.1 Support - IGPU, DRAM, PCH, CPU PLL, VTT, VCCSA Voltage Multi-adjustment
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), ASRock Software Suite (CyberLink DVD Suite - OEM and Trial; Creative Sound Blaster X-Fi MB - Trial)

Unique Feature	- ASRock Extreme Tuning Utility (AXTU)
	- Instant Boot
	- ASRock Instant Flash
	- ASRock AIWI
	- ASRock APP Charger
	- SmartView
	- Hybrid Booster:
	  - ASRock U-COP
	  - Boot Failure Guard (B.F.G.)
	- Combo Cooler Option (C.C.O.)
	- Good Night LED

Hardware Monitor	- CPU Temperature Sensing - Chassis Temperature Sensing - CPU/Chassis/Power Fan Tachometer - CPU/Chassis Quiet Fan (Allow Chassis Fan Speed Auto-Adjust by CPU or MB Temperature) - CPU Fan Multi-Speed Control - Voltage Monitoring: +12V, +5V, +3.3V, CPU Vcore
OS	- Microsoft® Windows® 7 / 7 64-bit / Vista™ / Vista™ 64-bit / XP / XP 64-bit compliant
Certifications	- FCC, CE, WHQL - ErP/EuP Ready (ErP/EuP ready power supply is required)
Accessories	- Quick Installation Guide, Support CD, I/O Shield - 2 x SATA Data Cables (Optional) - 1 x Front USB 3.0 Panel - 4 x HDD Screws - 6 x Chassis Screws - 1 x Rear USB 3.0 Bracket - 1 x 3D Red/Cyan Anaglyph Glasses (Optional) - 1 x CIR Remote Receiver (Optional) - 1 x Remote Controller (Optional)

The specification is subject to change without notice. The brand and product names are trademarks of their respective companies. Any configuration other than original product specification is not guaranteed.

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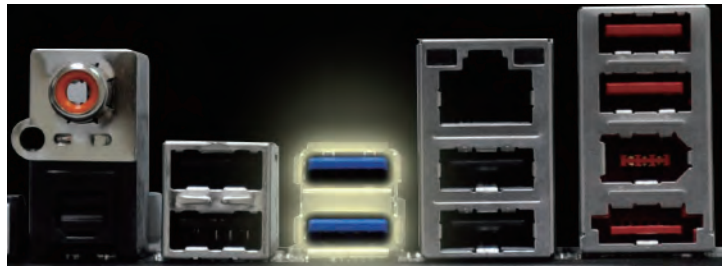
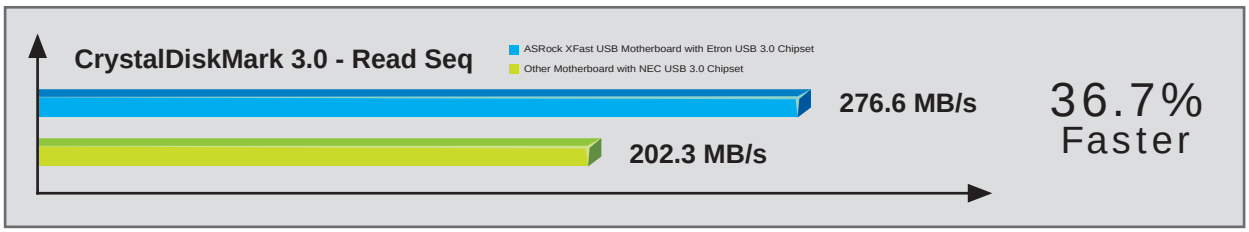
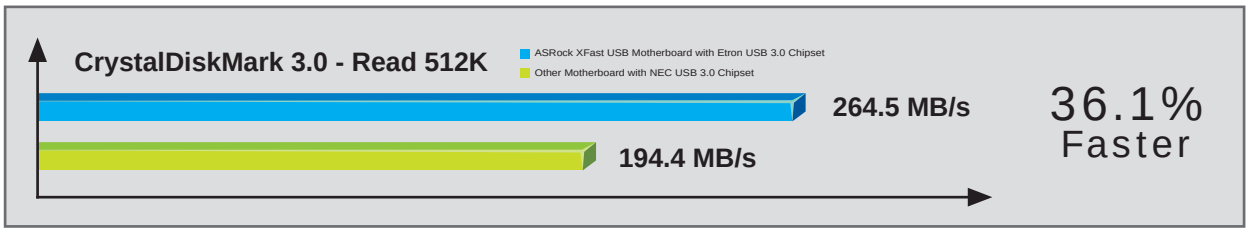
ASRock XFast USB Technology - Faster Than Your Imagination!

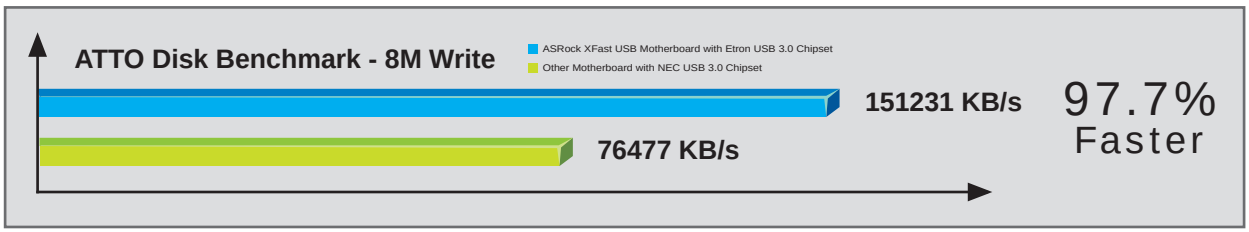


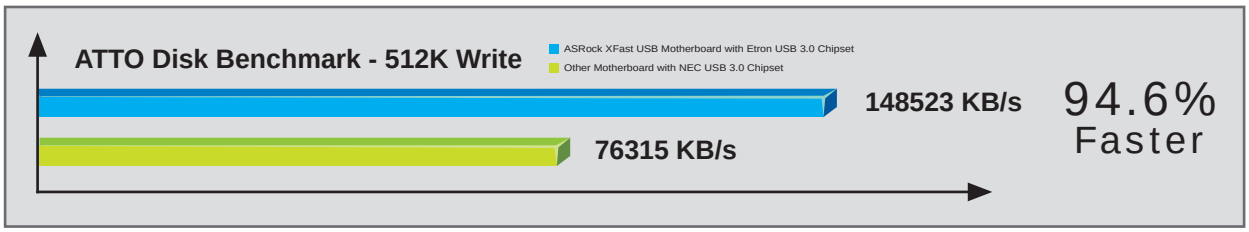
(The rear I/O photo is example only)

ASRock XFast USB Technology redefines the new standard in high performance computing. Proving once again to be the pioneer in motherboard industry, ASRock XFast USB Series Motherboards integrate with the latest XFast USB Technology which delivers the world's fastest USB data transfer speed. According to the below graph, it shows that the ASRock XFast USB technology can even boost USB 3.0 performance up to 97.7%!


CrystalDiskMark 3.0 - Read Seq
ASRock XFast USB Motherboard with Etron USB 3.0 Chipset
Other Motherboard with NEC USB 3.0 Chipset
276.6 MB/s
202.3 MB/s
36.7% Faster


CrystalDiskMark 3.0 - Read 512K
ASRock XFast USB Motherboard with Etron USB 3.0 Chipset
Other Motherboard with NEC USB 3.0 Chipset
264.5 MB/s
194.4 MB/s
36.1% Faster


ATTO Disk Benchmark - 8M Write
ASRock XFast USB Motherboard with Etron USB 3.0 Chipset
Other Motherboard with NEC USB 3.0 Chipset
151231 KB/s
76477 KB/s
97.7% Faster


ATTO Disk Benchmark - 512K Write
ASRock XFast USB Motherboard with Etron USB 3.0 Chipset
Other Motherboard with NEC USB 3.0 Chipset
148523 KB/s
76315 KB/s
94.6% Faster

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Free Bundle

MCE Remote Controller & Multi-Angle CIR Remote Receiver

Simply control your PC by MCE Remote Controller

H67M-GE/HT s bundled with one Remote Receiver and one MCE Remote Controller. You can enjoy more of your favorite entertainment by MCE (Media Center Edition) Remote Controller. The MCE features the entertainment center which allows you to enjoy a more convenient way of power on/off the system, watching DVDs, TV, listening to music, and so on by the easy-operate Remote Controller. The Remote Receiver is able to receive the multi-direction infrared signals from the Remote Controller (top, down and front), which is compatible with most of the chassis on the market.

Multi-Angle CIR Remote Receiver

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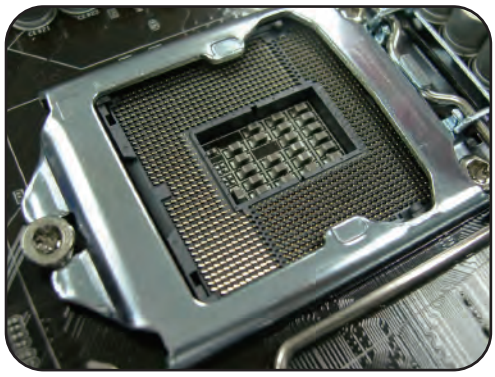
C.C.O.

Combo Cooler Option

C.C.O. provides the flexible option to adopt three different CPU cooler types, Socket LGA 775*, LGA 1155 and LGA 1156**

*C.C.O. may not be compatible with all Socket 775 CPU coolers.
**O is for Socket 1155 and Socket 1156 CPU cooler.

Support Intel® K-Series unlocked CPU



100% All Solid Capacitor design

THX TruStudio PRO™

THX TruStudio PRO™ is specially designed to bring the same great audio experience found in live performances, films, and recording studios - to the PC. THX TruStudio PRO™ provides the latest groundbreaking technologies that are products of years of collective experience. These technologies deliver the fullest audio experience for music, movies and games, while remaining true to the source and intention of the artists who created it

THX
TruStudio PRO™

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Free Gift

3D Red/Cyan Anaglyph Glasses

INTEL® INTRU™ 3D
Free Gift
3D Red/Cyan
Anaglyph Glasses
Stereoscopic 3D Blu-ray playback experience in full HD 1080p resolution over HDMI 1.4a
Enjoy 3D Display Now!

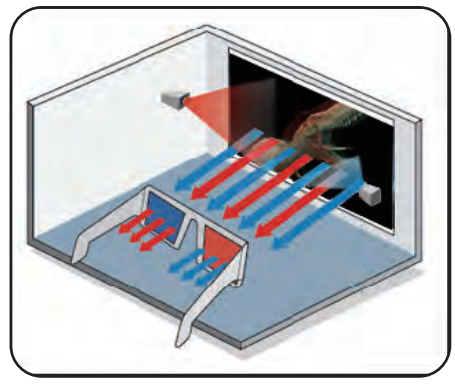
Undoubtedly, "jump-out-of -the-screen" stereoscopic 3D technology is a rising trend in entertainment. In order to let our users experience 3D display in a simple way, ASRock specially provides a set of 3D Red/Cyan anaglyph glasses in our package.

3D Video Systems and 3D Viewing

3D video systems are designed to duplicate this real-world experience by providing each eye a unique version of the video. The 3D image is created by displaying a separate image for each eye. Objects in a 3D video might appear to be in front of or behind the screen. To view 3D video, the display technology and the corresponding 3D glasses insure that the left eye sees only the video meant for the left eye, and so on for the right eye.

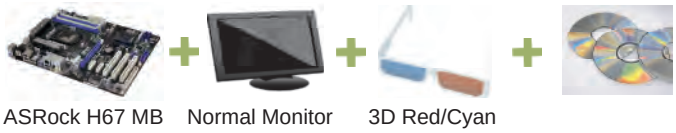
Anaglyphic 3D

Mention 3D video, many people are of course familiar with 3D glasses, one red and one blue, cyan or green lens. The red/blue system is mainly used for traditional television and computer 3-D effects, and was used in older 3-D movies. These glasses use the anaglyphic method of displaying a 3D image.



Anaglyph images are created by using color filters to remove a portion of the visible color spectrum from the image meant for each eye. When viewed through the color filters in the 3D glasses, each eye only sees the image that contains the portion of the color spectrum not filtered out by the lens. The disadvantage of Anaglyphic 3D is obvious; the overall image quality suffers as a large portion of the color spectrum is filtered out of the image for each eye.

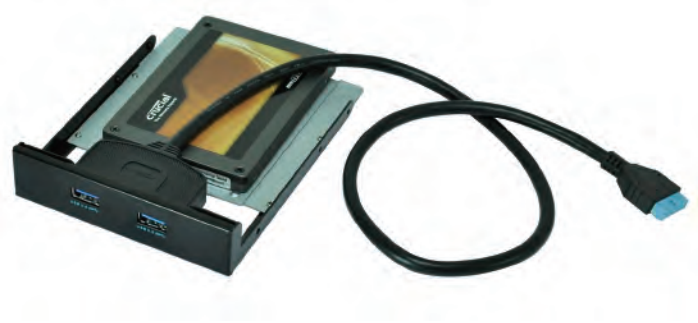
What You Need?



ASRock H67 MB + Normal Monitor + 3D Red/Cyan Anaglyph Glasses +

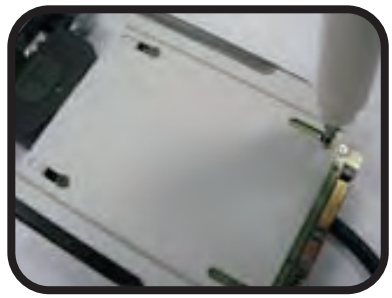
3D Red/Cyan Content Video
+ Normal Player
or
Blu-ray 3D Content Video
+ PowerDVD 10 Blu-ray 3D

Front USB 3.0 Panel



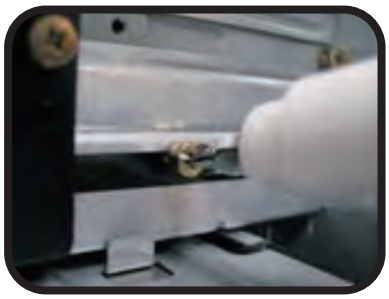
The Front USB 3.0 Panel supports 2 x USB 3.0 ports and provides a 2.5” SSD/HDD rack.

1. Prepare a 2.5" HDD/SSD and place it on the Front USB 3.0 Panel.



2. Screw the 2.5” HDD/SSD to the Front USB 3.0 Panel with four HDD screws.

3. Intall the Front USB 3.0 Panel into the 2.5” drive bay of the chassis.



4. Screw the Front USB 3.0 Panel to the drive bay with six chassis screws.

5. Plug the Front USB 3.0 cable into the USB 3.0 header on the motherboard.

6. The Front USB 3.0 Panel is ready to use.

*HDD/SSD is not included in motherboard retail package.

AXTU – The All-in-1 Tuning Software

ASRock Extreme Tuning Utility (AXTU) is an all-in-one software to fine-tune different features in an user-friendly interface, which includes Hardware Monitor, Fan Control, Overclocking, OC DNA and IES. In Hardware Monitor, it shows the major readings of your system. In Fan Control, it shows the fan speed and temperature for you to adjust. In Overclocking, you are allowed to adjust the CPU frequency, ratio and some voltages for optimal system performance. In OC DNA, you can save your OC settings as a profile and share with your friends. Your friends then can load the OC profile to their own system to get the same OC settings. In IES (Intelligent Energy Saver), the voltage regulator can reduce the number of output phases to improve efficiency when the CPU cores are idle without sacrificing computing performance.

UEFI – The Revolutionary BIOS Interface

ASRock UEFI Setup Utility
MAIN
ADVANCE
HW MONITOR
BOOT
SECURITY
SAVE EXIT
Description
The higher the level, the higher the fan speed
CPU Temperature : 40.5 C
N/B Temperature : 33.0 C
CPU Fan 1 Speed : N/A
CPU Fan 2 Speed : N/A
Chassis Fan 1 Speed : N/A
Chassis Fan 2 Speed : N/A
Chassis Fan 3 Speed : N/A
Power Fan Speed : N/A
Vcore : +1.44 V
+12.00V : +11.721 V
+5.00V : +4.752 V
+3.30V : +2.992 V
CPU Fan 1 & 2 Setting Full On
Chassis Fan 1 Setttting Full On
Chassis Fan 2 Setttting Level 4
Chassis Fan 3 Setttting Full On
Over Temperature Protection Full On
Tomorrow's technology today
Tue 10/19/2010, 19:21:28

*Windows Vista-64bit or Windows 7-64bit OS is required

Unified Extensible Firmware Interface (UEFI) is a revolutionary BIOS utility which offers tweak-friendly options in an advanced viewing interface. Compared with traditional BIOS design, the latest UEFI utility provides lots improved functions. The major features of UEFI include:

1. Graphical Visual Experience – UEFI provides an improved visual interface with colorful icons and makes your computing environment more versatile to replace the traditional dull BIOS page.

2. Mouse Enabling – Besides keyboard control, you can freely use mouse to select your ideal settings in UEFI as well.

3. Support bootable HDD over than 2TB – UEFI breaks the limitation of 2TB bootable HDD on traditional BIOS. With UEFI, you can enjoy the bootable HDD size over than 2TB!*

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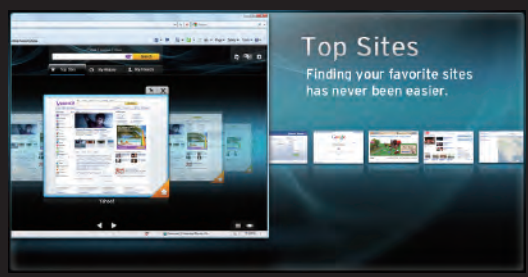
SmartView

Experience the Brand New Browser Now

SmartView is the smart start page for IE that combines your most visited web sites, your history, your Facebook friends and your real-time newsfeed into an enhanced view for a more personal Internet experience. ASRock motherboards are exclusively equipped with the SmartView utility that helps you keep in touch with friends on-the-go.

The Major Features of SmartView

Visual thumbnail images which categorize and rank your frequently visited websites, as well as provide a chronological view of your browser history.

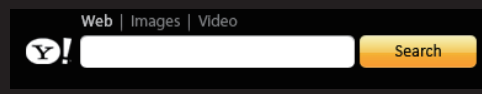


A persistent, real-time Facebook newsfeed located within the Internet Explorer sidebar.

A "Friend Wall" that conveniently alphabetizes your Facebook friends by profile photo, allowing immediate access to your friends' profile pages.

A "share this" button which allows you to instantly and immediately share webpage posts and links to your friends' Facebook pages.

A persistent search box from best-in-class search engines such as Google, Yahoo, Baidu (China only) and Yandex (Russia only).



Two mode options that allow you to choose your favored view style.

Flow Mode

Flow Mode

System Requirements
OS version: Win7 32/64 bit, Vista 32/64 bit□Browser version: IE8

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ASRock
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FREE Bundle
ASRock Software Suite
CyberLink Power2Go 6.1 LE OEM
CyberLink MediaShow 4.1 SE OEM
CyberLink PowerDVD 8.0 DTS Trial
CyberLink PowerDirector 8.0 Trial
CyberLink PowerBackup 2.5 Trial
Creative Sound Blaster X-Fi MB Trial

CyberLink

X-Fi XTREME FIDELITY

EAX ADVANCED HD 4.0

CyberLink Power2Go 6.1 LE OEM

Power2Go 6 lets you burn and backup videos, photos, music and data onto Blu-ray Discs and DVDs.

CyberLink MediaShow 4.1 SE OEM

Photo and video management software MediaShow edits videos and photos instantly, creates slideshow, and allows publishing directly to YouTube and Flickr.

CyberLink PowerDVD 8.0 DTS Trial

World-renowned PowerDVD 8 DTS delivers outstanding DVD movie playback quality on your PC.

CyberLink PowerDirector 8.0 Trial

PowerDirector - Video Editing software – edits high-definition videos including AVCHD, allows output to PSP iPod and Blu-ray Disc.

CyberLink PowerBackup 2.5 Trial

PowerBackup backups valuable data on your PC.

Creative Sound Blaster X-Fi MB Trial

The Sound Blaster X-Fi MB solution provides premium audio quality, effects and features for PC systems equipped with onboard audio.

For gamers, the EAX® ADVANCED HD 4.0, with its state-of-the-art Multi-Environment rendering and reverb modelling, delivers a much more realistic and immersive 3D gaming experience than your motherboard audio ever will.